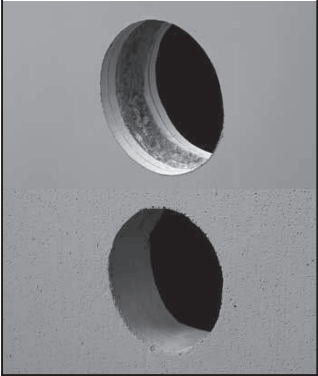
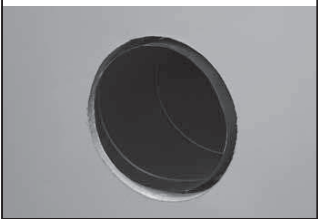


The FDV fire damper valve mounted on wall or floor between fire compartments penetrated by the exhaust duct. The fire resistance class when the fire damper valve is installed through masonry wall or lightweight panel wall is EI 15 (v_o)S or E 120 (v_o)S. In installation through masonry floor, it is EI 30 (h_o)S or E 120 (h_o)S. Applies only to exhaust.

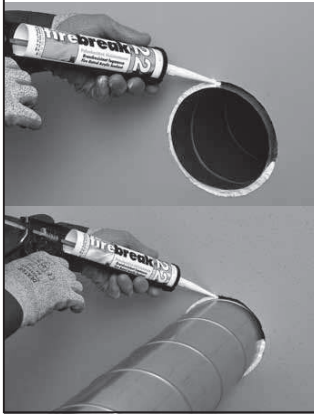
1 When installing the fire damper on lightweight panel walls or on masonry constructions, cut a round installation hole that is as close to the size of the duct as possible. The maximum size of the installation is the duct diameter +20mm.



2 Center the duct by fixing it in the middle of masonry or lightweight installation hole. The duct must reach the level of the wall surface.



3 Fire seal the duct penetration with approved method. Fill the gap between the opening and the duct from both sides with Wurth Firebreak 22 / Sealfire W100 fire seal mass or suchlike.



4 When the duct penetration is completed and the mass has dried press the installation frame tightly to the wall surface.



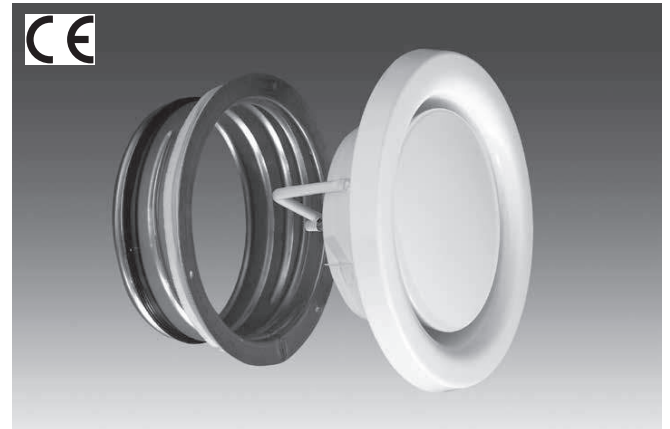
5 Drill approximately a 3mm hole for mounting screws. Check the exact position of screws in the cut picture.



6 Install the mounting screws. NB! Self-piercing screws can also be used. Attach the frame to the duct with at least two screws.



7 Screw and press the fire damper valve in installation frame.

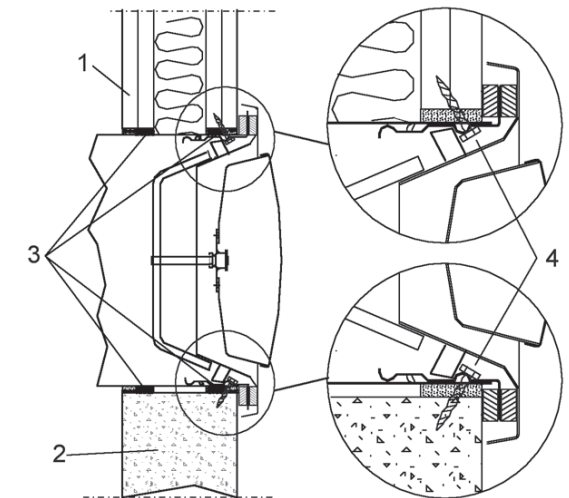


FIRE VALVE FDV INSTALLATION INSTRUCTIONS AND CERTIFICATE

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Example of installation on lightweight panel wall and masonry wall or ceiling.



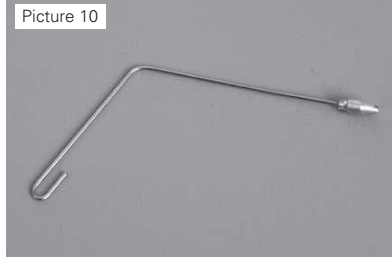
1. Gypsum boards and mineral wool min 40kg/m³
2. Masonry wall or structure
3. Fire seal mass, Wurth Firebreak 22 / Sealfire W100
4. Mounting screws, eg. Ø 4,8x15 (25)

ADJUSTMENT

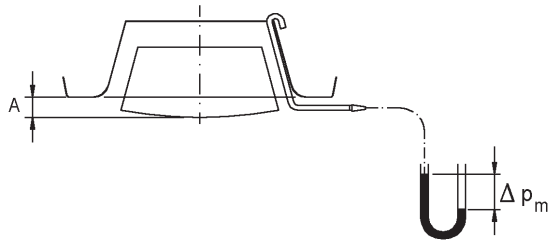
The valve is adjusted by rotating the central cone. The valve is dependent on the surface of the forehead and a framework to the level of the surface level difference (A) measured by the measuring device (picture 9).

The tip of the measuring device (picture 10) is put inside the valve and the pressure difference is measured with a manometer (picture 11). The airflow rate is calculated by using the formula below. After the adjustment, lock the central cone with the locking nut. (No include in the deliveries).

$$q_v = k * \sqrt{\Delta p_m}$$



FDV	Ø 100	FDV	Ø 125	FDV	Ø 160	FDV	Ø 200
A	k	A	k	A	k	A	k
-15	0,43	-15	0,65	-12	1,16	3	1,78
-12	0,63	-12	0,92	-9	1,51	6	2,46
-9	0,83	-9	1,22	-6	1,90	9	3,24
-6	1,02	-6	1,53	-3	2,31	12	3,97
-3	1,22	-3	1,84	0	2,75	15	4,69
0	1,42	0	2,17	3	3,25	20	5,88
3	1,65	3	2,52	6	3,73	25	6,95
6	1,88	6	2,83	9	4,22		
9	2,11	9	3,14	12	4,67		
12	2,33	12	3,46	15	5,12		
		15	3,77	18	5,58		

**FDV INSTALLATION CERTIFICATE** ver. 3.0 1.9.2012**Halton**

An installation certificate form must be completed when installing fire dampers.

A separate certificate must be filled in for each fire damper.

This installation certificate applies only to Halton products.

CE marked with EC Certification of Conformity number 0809 – CPD – 0759.

Name of the installation location: _____

Address: _____

Product number from the type plate (production order no.): _____

Release temperature of the fire damper fuse: _____

Installed by: _____

Company name: _____

Address: _____

Company telephone no.: _____

E-mail or Web address: _____

Installer's telephone no.: _____

Installer name(s): _____

Date of installation: _____

Installation location identification (section/floor/room): _____

Notes and considerations: _____

I hereby verify that the installation of this fire damper, the tightness of the gland, and the product (manual and/or electric) testing have been performed according to the manufacturer's installation instructions:

Place and date: _____, _____, _____, 20_____

Installer's name and signature: _____

Installation supervisor's name and signature: _____

This installation certificate must be enclosed with the deed of transfer of the building in question, and a copy of it must be given to rescue officials upon request.